

ENGINEERING CONSULTANTS

### SACHIN TRIVEDI

SACHINTRARCH@GMAIL.COM 647.907.4139 VIN ENGINEERING INC. SUNILS@VINGCINC.COM 416.270.3933

### **ZONING INFORMATION:**

12 BITTERSWEET STREET IS ZONED R2\*190 UNDER BY-LAW 177-96 AS AMENDED. THE PROPOSED USE OF COACH HOUSE IS PERMITTED UNDER SECTION 7: EXCEPTIONS.

IN ADDITIONAL PERMITTED USE (7.5.1), ONE ACCESSORY DWELLING UNIT IS PERMITTED ON A LOT PROVIDED THAT

- IT IS ACCESSORY TO SINGLE DETACHED, SEMI DETACHED OR TOWNHOUSE DWELLING UNIT ON THE SAME LOT,
- IT IS LOCATED ABOVE A PRIVATE GARAGE IN EITHER THE MAIN BUILDING OR AN ACCESSORY BUILDING ON THE SAME LOT, EXCEPTING THAT STAIRWAY PROVIDING ACCESS TO THE ACCESSORY DWELLING UNIT MAY EXTEND DOWN TO GRADE; AND,
- THE REQUIRED PARKING SPACE IS INDEPENDENTLY ACCESSIBLE FROM THE PARKING SPACES OF THE MAIN DWELLING UNIT ON THE LOT.

### SITE STATATICS:

LOT AREA : 351.95 SM LOT FRONTAGE : 11.00 M

PRINCIPAL HOUSE (GFA)

LEVEL 1 : 129.89 SM LEVEL 2 : 127.74 SM TOTAL : 257.63 SM

COACH HOUSE (GFA)

LEVEL 1 : 08.23 SM LEVEL 2 : 56.89 SM TOTAL : 65.12 SM

LOT COVERAGE (%)

PRINCIPAL HOUSE : 36.91 % COACH HOUSE : 16.16 % TOTAL : 53.07 %

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PROJECT:

### PROPOSED COACH HOUSE ABOVE GARAGE

12 BITTERSWEET STREET MARKHAM ON L6B 1K2

DRAWING TITLE :

SITE PLAN

A-01

(ALL THE ABOVE CONDITIONS ARE MET IN THE PROPOSAL.)

### GENERAL NOTES:

(UNLESS OTHERWISE NOTED )

- 1. ALL CONSTRUCTION TO BE IN ACCORADANCE WITH THE ONTARIO BUILDING CODE (REGULATION 3321/12 AS AMENDED, EFFECTIVE 2014) MUNICIPAL BY-LAWS PLANS AND SPECIFICATIONS.
- 2. CONTRACTORS SHALL VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE OWNERS REPRESENTATIVE PRIOR TO PROCEEDING WITH RELATED WORK.
- THE CONTRACTOR SHALL GET ALL PROPOSED FINISH MATERIALS APPROVED BY THE OWNER IN WRITING PRIOR TO USE.
- 4. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS AND ANY OTHER DOCUMENTATION REQUIRED FOR APPROVAL BY OWNER/OWNER'S REPRESENTATIVE PRIOR TO COMMENCING WITH RELATED CONSTRUCTION.
- MAINTAIN ALL EXISTING CONDITIONS WHICH ARE DESIGNATED TO REMAIN AND PROVIDE THE NECESSARY PROTECTION DUE TO CONSTRUCTION OR INCLEMENT WEATHER DURING CONSTRUCTION.
- CONTRACTOR SHALL REFER TO THE NOTES ON MECHANICAL, ELECTIRCAL PLUMBING AND STRUCTURAL DRAWINGS.
- CONTRACTOR SHALL READ ARCHITECTURAL DRAWINGS AND SPECIFICATIONS IN CONJUNCTION WITH ALL STRUCTURAL MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. IN CASE OF ANY DISCREPANCIES REPORT TO OWNER OR OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE CONSTRUCTION WORK.

# 01 SITE WORK

- RAIN WATER LEADERS TO BE BROUGHT DOWN TO GRADE AND EXTENDED HORIZONTALLY 1200MM MINIMUM TO 400 x 400 x 50 THICK PRECAST CONCRETE SPLASH PADS AT EACH LOCATION. SPLASH PADS SET TO DRAIN AWAY FROM FOUNDTAION. ALTERANATELY DRAIN ALL RAIN WATER LEADERS TO APPROVED DRY WELL AS INSTRUCTED BY AUTHORITIES HAVING JURISDICTION
- 2. PROTECT ALL EXISTING TREES AND SHRUBS WITH SOLID HORDING SPACED AROUND ENTIRE TREE TRUNK. DO NOT CUT TRIM OR PRUNE ANY PLANTS LOCATED ON MUNICIPAL PROPERTY EXCEPT AS DIRECTED IN WRITING BY AUTHORITIES HAVING JURISDICTION.

# EXCAVATION AND BACKFILLING AND LOT GRADING

- 1. EXCAVATION TO BE UNDERTAKEN IN SUCH A MANNER AS TO PREVENT DAMAGE TO EXISTING STRUCTURES, ADJACENT PROPERTIES AND UTILITIES.
- 2. TOPSOIL AND ORGANIC MATERIAL IN AREAS UNDER PROPOSED CONSTUCTION AND SHALL BE REPLACED WITH APPROVED GRANULAR MATERIAL OR PRE ENGINEERED FILL.
- 3. REFER TO STRUCTURAL DRAWINGS NOTES FOR FURTHER NOTES ON EXCAVATION AND BACKFILLING.
- 4. THE LOT GRADING SHALL BE AS PER THE LEVELS SHOWN ON THE SITE PLAN DRAWING, ENSURING DRAINAGE OF THE SITE. SODDING AND PAVING TO BE AS PER SITE PLAN.

# DAMP PROOFING AND DRAINAGE

- 1. ALL EXTERIOR SURFACES OF ALL EXTERIOR WALL ENCLOSING OCCUPIED SPACE AND CRAWL SPACES TO BE DAMP PROOFED.
- MASONRY FOUNDATION WALLS TO BE PARGED WITH 6MM CEMENT MORTAR AND BEVELED OVER TOP OF FOOTINGS.
- PROVIDE 100MM DIAMETER WEEPING TILE OF PERFORATED PLASTIC COVERED C/W SEDIMENT SLEEVE. LAY WEEPERS LEVEL AND FLAT ON UNDISTURBED SOIL MATCHING ELEVATION OF EXISTING WEEPING TILE ADJACENT TO EXISTING OR NEW FOOTINGS. CONNECT NEW WEEPING TILE TO EXISTING WITH TRANSITION SLEEVES.
- 4. WEEPERS TO BE COVERD WITH MINIMUM DEPTH OF 300MM WITH 19MM CLEAR CRUSHED LIMESTONES.
- SITE GRADING TO SLOPE AWAY FROM BUILDING AND NOT ADVERSELY EFFECT ADJACENT PROPERTIES. ALL ADJACENT DRAINAGE PATTERNS TO AND FROM OTHER PROPERTIES TO BE MAINTAINED.

## FOOTING AND FOUNDATIONS

- 1. ALL FOOTINGS AND FOUNDATIONS SHALL BE AS PER STRUCTURAL DRAWINGS AND NOTES.
- 2. DAMP PROOFING OF 2 COATS BITUMINOUS EMULSION SHALL BE APPLIED TO EXTERIOR OF ALL FOUNDATIONS WALLS BELOW GRADE. DAMP PROOFING TO EXTEND MINIMUM 150MM ABOVE FINISHED GRADE.
- 3. A DRAINAGE LAYER CONSISTING OF 19MM THICK HIGH DENSITY MINERAL FIBER INSULATION SHALL BE PLACED ON EXTERIOR FACE OF FOUNDATION WALLS EXTENDING FROM TOP OF FOOTINGS TO 150MM ABOVE FINISHED GRADE
- 4. CONCRETE SLABS ON GRADE TO BE PLACE ON MINIMUM 150MM GRANULAR BASE COMPECTED TO 95% MODIFIED PROCTER DENSITY AND SET ON UNDISTURBED SOIL WITH COMPRESIVE STRENGTH OF 120Pa.
- 5. INSIDE FACE OF CONCRETE FOUNATION WALLS TO BE COVERED WITH #15 BITUMINOUS IMPREGNATED PAPER WHERE IN CONTACT WITH WOOD FRAMING MEMBERS.

# WOOD FRAME CONSTRUCTION

- 1. ALL LUMBER TO BE NO 1 STRUCTURAL AND IDENTIFIED AS SUCH WITH APPROVING BODY STAMP. ALL PRE-ENGINEERED MEMBERS TO BE APPROVED BY A CERTIFIED PROFESSIONAL ENGINEER.
- MOISTURE CONTENT FOR IN FRAMING MAXIMUM 19%.
- WOOD MEMBERS IN CONTACT WITH CONCRETE OR MASONRY TO BE SET ON 6 MIL POLYVINYL BARRIER.
- ALL EXTERIOR WOOD FRAMING SHALL BE AS SHOWN ON THE DRAWINGS, AND TO A MINIMUM OF 13MM PLYWOOD/DENSGLASS GOLD SHEATHING ON 38x140MM STUD WALLS AT 400 C/C.
- ALL INTERIORS STUD WALLS TO BE AS SHOWN ON THE DRAWINGS, AND TO A MINIMUM OF 13MM GYPSUM WALL BOARD ON BOTH SIDE OF 38x89MM WOOD STUDS AT 400MM O.C. UNLESS OTHERWISE NOTED.
- PROVIDE CONTINUOUS 38MM BOTTOM PLATE AND DOUBLE TOP PLATE, 2x38MM, AT ALL STUD WALL CONSTRUCTION.
- ALL FLOOR JOIST SPACED AS IDENTIFIED ON DRAWINGS AND HAVE 40MM END BEARING.
- JOIST TO NAILED TO CONTINUOUS SILL PLATE SET TO FOUNDTATION WITH 13MM DIA. GALVANIZED 150MM LONG THREADED ANCHOR BOLTS FIXED WITH 38MM WASHER AND NUT AT 125MM SPACING.
- 9. DOUBLE ALL HEADER AND TRIMMER JOIST.
- 10. DOUBLE ALL JOIST UNDER NON-LOAD BEARING WALLS.
- 11. PROVIDE 25x25 CROSS BRACING AT 125MM C/C BETWEEN ALL CONVENTIONAL WOOD JOIST.
- 12. ALL CONVENTIONAL HIP AND VALLEY RAFTERS TO BE 38MM DEEPER THAN SUPPORTED RAFTER DEPTHS.
- 13. PROVIDE 38 X 64 COLLAR TIES TOGETHER.
- 14. ALL ROOF SHEATHING TO BE MINIMUM 13MM THICK WITH-CLIPS AT 305MM SPACING ON UNSUPPORTED EDGES.
- 15. HOLES REQUIRED IN JOIST TO BE PLACED ALONG THE MIDDLE OF JOIST DEPTH AND NO GREATER THAN  $\frac{1}{4}$  THE JOISTDEPTH IN SIZE. NO NOTCHES OF HOLES TO BE MADE IN JOIST WITHIN 400MM OF JOIST ENDS.
- 16. HOLES IN STUD WALLS TO BE NO GREATER THAN 38MM PLACED IN CENTRE OF STUD.
- 17. ENGINEERED ROOF TRUSSES AND OTHER MEMBERS CAN BE CUT. DRILLED ON NOTCHES ONLY AS DIRECTED BY THE PROFESSIONAL ENGINEER THAT CERTIFIED SUCH TRUSSES.
- 18. ROOFING SHEATHING TO BE FASTENED WITH APPROVED ROOFING NAILS 38MM DEEP AT 305MM O.C. AND AT 150MM O.C. ON LONG EDGES.

## THERMAL AND MOISTURE PROTECTION

- 1. ALL ASPHALT SHINGLES TO BE MINIMUM 240# WEIGHT / 32 SFT.
- 2. ALL ROOF SHINGLES TO BE FASTENED WITH MINIMUM 43/4" ROOFING NAILSPER SHINGLE.
- EVAES PROTECTION COMMENCING ALONG EVAES THROUGH CONSISTING OF TYPE M OR ROLL ROOFING SHALL EXTEND A MINIMUM OF 900MM UP ROOF FROM INSIDE FACE OF EXTERIOR WALLS. EVAES PROTECTION SHALL BE LAID WITH A MINIMUM 100MM HEAD AND END LAPS CEMENTED TOGETHERR WITH APPROVED SEALANT OR USE OF SELF SEALING COMPOSITE SHEATHING.
- 4. VALLEYS TO BE PROVIDED TWO LAYERS OF APPROVED ROOFING PAPER AND VLLEY FLASHING TO BE MINIMUM 610MM WIDE PRE-FINISHED SHEET METAL
- PROVIDE PRE-FINISHED STEP FLASHING AND COUNTER FLASHING AT INTERSECTION OF SHINGLED ROOFS WITH VERTICAL WALLS, MASONRY OR OTHERWISE
- SHEET METAL FLASHING SHALL CONSIST OF 12GA PRE-FINISHED METAL FLASHING OR 2 OZ COPPER FABRIC FLASHING WHERE NOT EXPOSED.
- ENERGY EFFICIENCY OF DWELLING AS PER ZONE1, OBC MINIMUM THERMAL PERFORMANCE REQUIREMENTS FOR HEATING EQUIPMENT WITH AFUE OF 90% MINIMUM.
- MINIMUM THERMAL INSULATION LEVELS FOR THERMAL INSULATION OF ENVELOPS AS PER COMPLIANCE PACKAGE - TABLE 3.1.1.2.A (AS) OF SB-12 AND AS FOLLOWS.

R50 CEILING WITH ATTICS R31 CEILING WITHOUT ATTICS R19+5ci EXTERIOR WALLS EXPOSED FLOOR R35

WINDOWS AND GLASS DOOR U-VALUE 0.28(ENERGY RATING 25)

SPACE HEATING EQUIPMENT MIN. AUFE 94% HEAT RECOVERY VENTILATOR MIN. SRE 70% DOMESTIC WATER HEATER MIN. EF 0.80

- ALL INSULATION TO BE PROTECTED WITH MINIMUM 13MM THICK GYPSUM WALL BOARD.
- 10. DUCTS PASSING THROUGH UNHEATED SPACE SHALL BE MADE AIR TIGHT WITH DUCT TAPE AND/OR SEALANT.
- 11. CAULK ALL EXTERIOR WALLS AT FRAMES OF DOORS, WINDOWS, EUIPMENT OPENINGS, VENTS, LOUVERS AND OUTLETS.
- 12. WEATHER STRIP ALL EXTERIOR DOORS, DOORS TO COLD SPACES, WINDOWS AND ATTIC ACCESS HATCH.
- 13. WALLS AND CEILING OF GARAGE SHALL BE CLAD WITH TWO LAYERS OF 13MM EXTERIOR GRADE PLYWOOD OR GYPSUM BOARD OR COMBINATION WITH EDGES OF OUTER LAYER LAPPED OVER INNER LAYER MINIMUM 300MM.
- 14. ALL JOINTS IN GYPSUM BOARD PROVIDING GAS PROOF SEAL BETWEEN AND DWELLING TO BE TAPED AND SEALED WITH 2 COATS OF GYPSUM BOARD COMPOUND.
- 15. ALL PENETRATIONS THROUGH GAS PROOFED WALLS SHALL BE CAULKED WITH APPROVED ACRYLIC BASED SEALANT.

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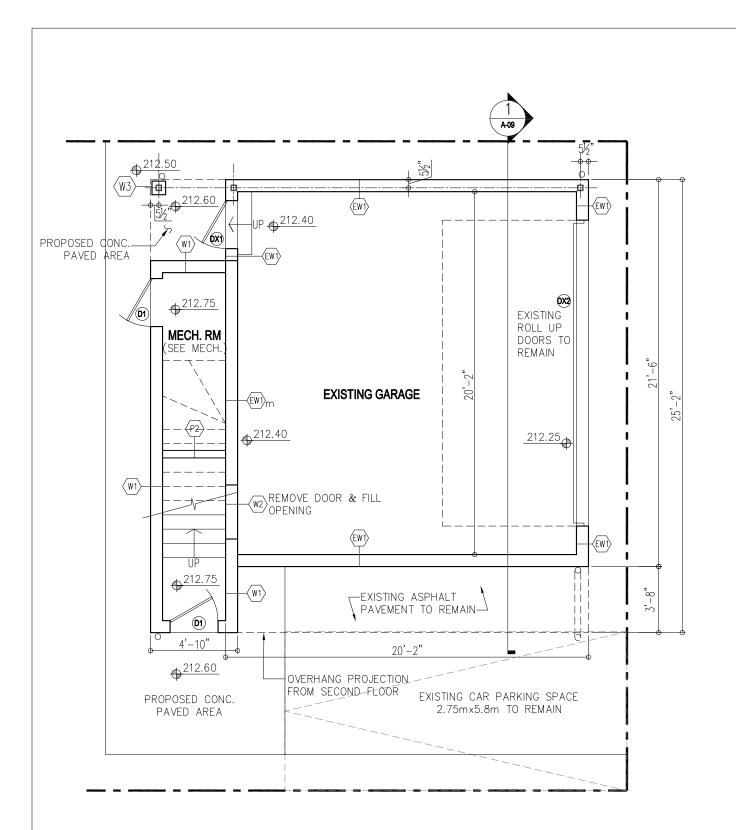
PROJECT:

#### PROPOSED COACH HOUSE ABOVE GARAGE

12 BITTERSWEET STREET MARKHAM ON L6B 1K2

DRAWING TITLE

**SCHEDULES & NOTES** 



#### NOTES: DOOR SCHEDULE: EXISTING 2 CAR PARKING SPACE 2.75mx5.8m EACH TO REMAIN EXISTING DOOR 2'-8" x 6'-8" - EXISTING SLOPED CONCRETE FLOOR INSIDE THE GARAGE TO REMAIN 16'-10" x 96" EXISTING GARAGE DOOR DX2 WALL & CEILING ASSEMBLIES SEPARATING GARAGE SPACE SERVING 2'-8" x 6'-8" EXTERIOR INSULATED DOOR, MIN. R15 MAIN DWELLING UNIT AND UNIT ABOVE GARAGE SHALL BE MIN. 1 2'-6" x 6'-8" D2 INTERIOR DOOR HR FRR AND 50 STC RATING 2'-2" x 6'-8" D3 INTERIOR DOOR CONTRACTOR TO REMOVE ROOF TRUSS, ROOFING, EAVESTROUGH, CD1 2'-8" x 6'-8" ETC. UPTO THE PARTY WALL INTERIOR CLOSET DOOR

### WALL AND FLOOR SCHEDULE:



- EXISTING EXTERIOR WALL - EXISTING BRICK VENEER, AIRSPACE, A/V BARRIER.
- 13MM PLYWOOD, 2x4 WOOD STUD @ 16" O.C. NEW 2x4 @ 16" O/C TO FORM 2 PLY
- 1 GYPSUM WALL BOARD



#### MODIFIED EXISTING EW1 WALL (FRR 1 HR AND 48 STC MIN)

- EXISTING BRICK VENEER, AIRSPACE, A/V BARRIER, 13MM PLYWOOD, 2x4 WOOD STUD @ 16" O.C.
- NEW 2x4 @ 16" O/C TO FORM 2 PLY
- R22/23 ROXUL CÓMFORT BATT INSULATION.
- 6mil VAPOUR BARRIER, CONTINUOUS, OVERLAP JOINTS AND SEALED
- §" MM TYPE 'X' GYPSUM WALL BOARD



### 

- JAMES HARDLE PLANK FIBRE CEMENT SIDING (MAKE AND COLOUR TBD)
- 1" THICK WOOD STRAPPING
- 1" POLYISO-CYANURATE INSULATION(R=5.6)
- DRAINAGE LAYER, ADHESIVE
- CONTINUOUS TROWEL BASED AIR BARRIER
- 13MM DENSGLASS GOLD SHEATHING
- 2x4 WOOD STUDS @ 16" O.C C/W R22/23 ROXUL COMFORT BATT INSULATION
- 6mil VAPOUR BARRIER, CONTINUOUS, OVERLAP JOINTS AND SEALED
- 3" GYPSUM WALL BOARD





(WALL ASSEMBLY W8A PER NBC: FRR 1.5HR AND 52 STC)

- §" TYPE 'X' GYPSUM WALL BOARD
- 2x4 WOOD STUD (STUD ON THE ENDS FASTENED TO THE EXISTING WALL)
- 1" CAVITY
- 2x4 WOOD STUD (STUD ON THE ENDS FASTENED TO THE EXISTING WALL)
- 2 LAYERS \$" TYPE 'X' GYPSUM WALL BOARD ON STAIR

(WALL THICKNESS TO MATCH EXISTING ADJACENT)





- STRUCTURAL COLUMN (REFER TO STUCTURAL DWGS)
- STUD WELDED TO STEEL COLUMN
- 13MM PLYWOOD
- 1" RIGID INSULATION
- STUCCO FINISH WITH REINFORCING MESH, BASE & TOP





- 1 GYPSUM WALL BOARD
- 2x4 WOOD STUDS @ 16" O.C
- 1 GYPSUM WALL BOARD / 13MM DENSSHIELD TILE BACKER ON WASHROOM/KITCHEN SIDE



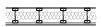
 $\langle$  P1 $\rangle$ BUT WITH 2x6 WOOD STUDS @ 16" O.C.



(90 MIN. FIRE RATED WALL AS PER TABLE 2.3.4.A. AND 2.3.4.C OF SB-2 OF OBC)

- 2x4 WOOD STUDS @ 16" O.C
- 2 LAYERS 1" TYPE 'X' GYPSUM WALL BOARD

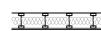




(FLOOR ASSEMBLY F1e PER NBC: FRR 1 HR AND 53 STC)

- ONE SUBFLOOR LAYER OF 15.5MM PLYWOOD
- WOOD JOISTS/LVL AS PER STRUCTURAL DRAWINGS MINIMUM 35 CLOSED CELL SPRAY-IN-PLACE FOAM
- INSULATION (ACTS AS AIR AND VAPOUR BARRIER) RESILIENT METAL CHANNELS 406 O.C. ATTACHED TO
- 38x89 WOOD FRAMING, HUNG FROM JOISTS/LVL BY 38x38 HANGERS
- ONE LAYER OF 15.9 TYPE 'X' GYPSUM WALL BOARD, PAINT FINISH





- ONE SUBFLOOR LAYER OF 15.5MM PLYWOOD
- WOOD JOISTS/LVL AS PER STRUCTURAL DRAWINGS
- MINIMUM 35 CLOSED CELL SPRAY-IN-PLACE FOAM INSULATION (ACTS AS AIR AND VAPOUR BARRIER)
- 13MM DENSGLASS GOLD SHEATHING ATTACHED TO 38x89 WOOD FRAMING HUNG BY 38x38 WOOD
- HANGERS STUCCO PLASTER FINISH

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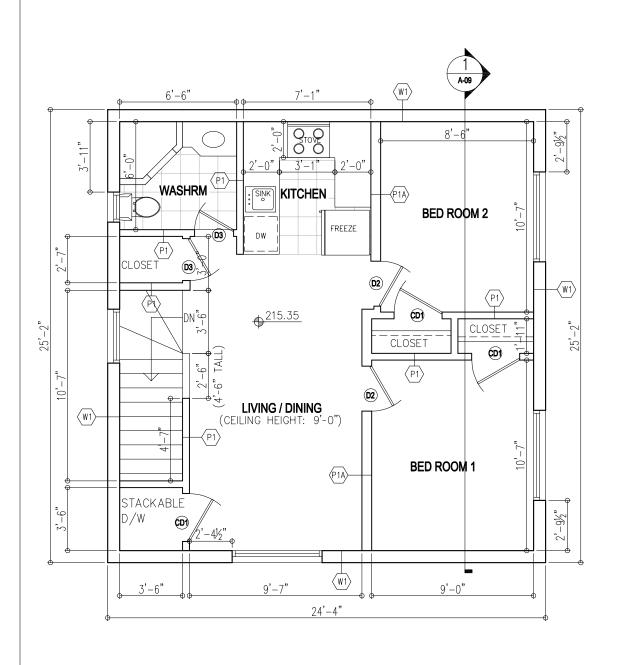
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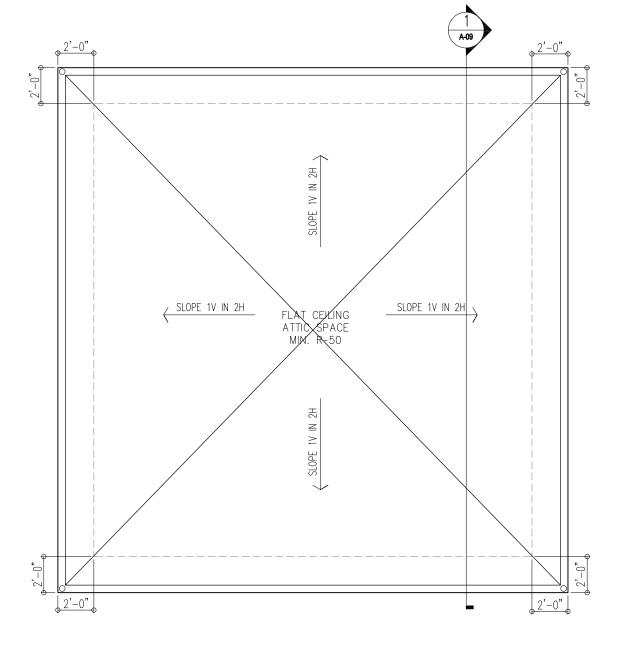
PROPOSED COACH HOUSE ABOVE GARAGE

12 BITTERSWEET STREET MARKHAM ON L6B 1K2

DRAWING TITLE

**GROUND FLOOR PLAN** 





SECOND FLOOR PLAN

**ROOF PLAN** 

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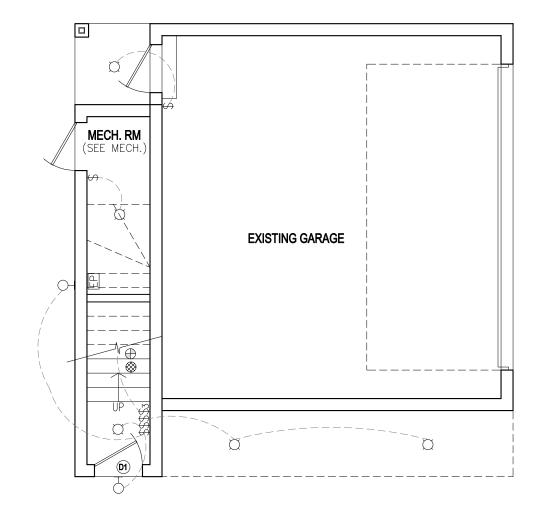
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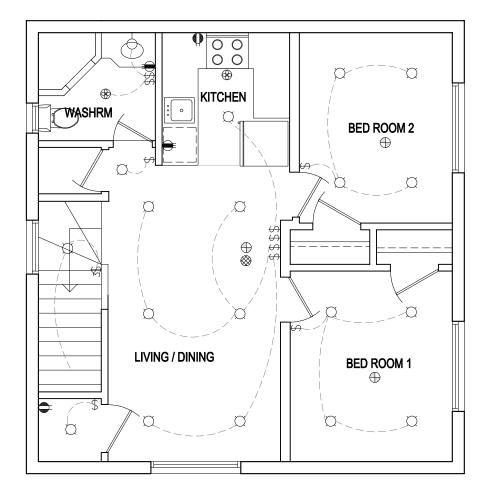
ROOF PLAN

SECOND FLOOR PLAN &

PROPOSED COACH HOUSE ABOVE GARAGE

A-04





# **GROUND FLOOR PLAN**

## SECOND FLOOR PLAN

ELECTRICAL AND FIRE SAFETY NOTES:				
EXHAUST FAN VENTED TO EXTERIOR  3\$ 3 WAY CONTROL SWITCH	15A, 120V GFCI DUPLEX RECEPTACLE  50A, 208V RECEPTACLE AT STOVE & DRIER	1. CONTRACTOR TO VERIFY EXISTING ELECTRICAL SERVICES BEFORE PRICING THIS CONTRACT. 2. THE EXISTING IS 120/240V, 1PH, 3W SERVICE IN BASEMENT OF EXISTING MAIN HOUSE / DWELLING UNIT. 3. THE NEW 120/240V 10, 3W 125AMP, 24 CIRCUIT PANEL TO BE INSTALLED UNDER STAIRCASE OF NEW COACH HOUSE ADDITION. 4. CONTRACTOR TO PROVIDE 60A FEEDERS, DISCONNECT PANEL AS REQUIRED, UPGRADE EXISTING PANEL IF REQUIRED AS PER E.S.A. 5. CONTRACTOR TO GET ALL CLEARENCE, APPROVALS AND PERMITS NEEDED FOR INSTALLATION AND CERTIFICATION OF APPROVAL AFTER THE INSTALLATION FROM E.S.A.		

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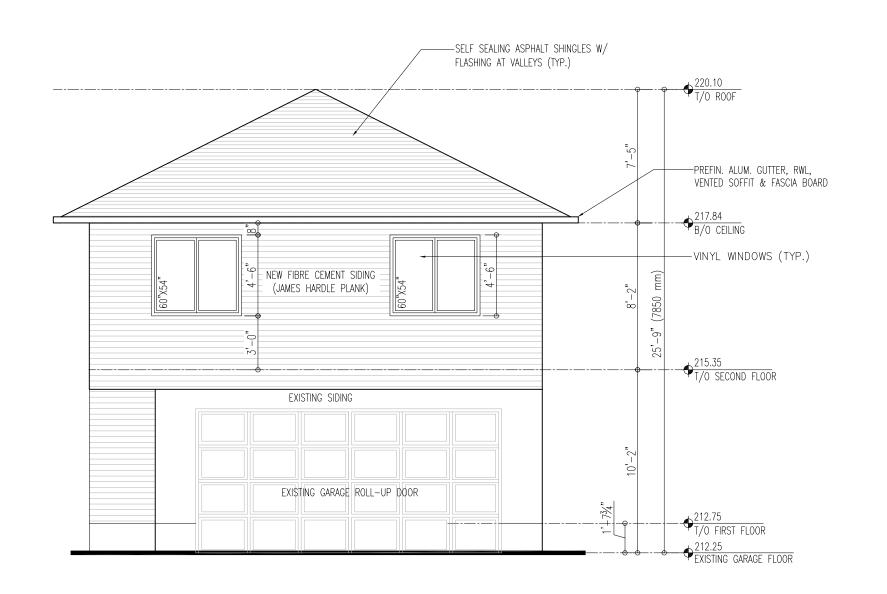
PROPOSED COACH HOUSE ABOVE GARAGE

12 BITTERSWEET STREET MARKHAM ON L6B 1K2

DRAWING TITLE :

ELECTRICAL & FIRE SAFETY PLANS





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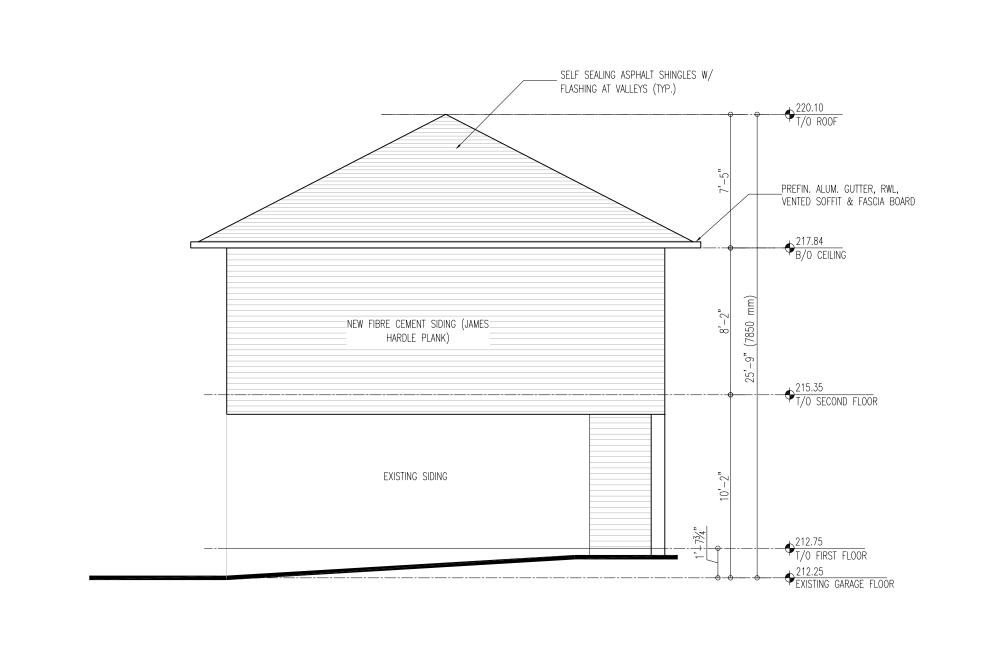


PROPOSED COACH HOUSE ABOVE GARAGE

12 BITTERSWEET STREET MARKHAM ON L6B 1K2

DRAWING TITLE :

WEST ELEVATION



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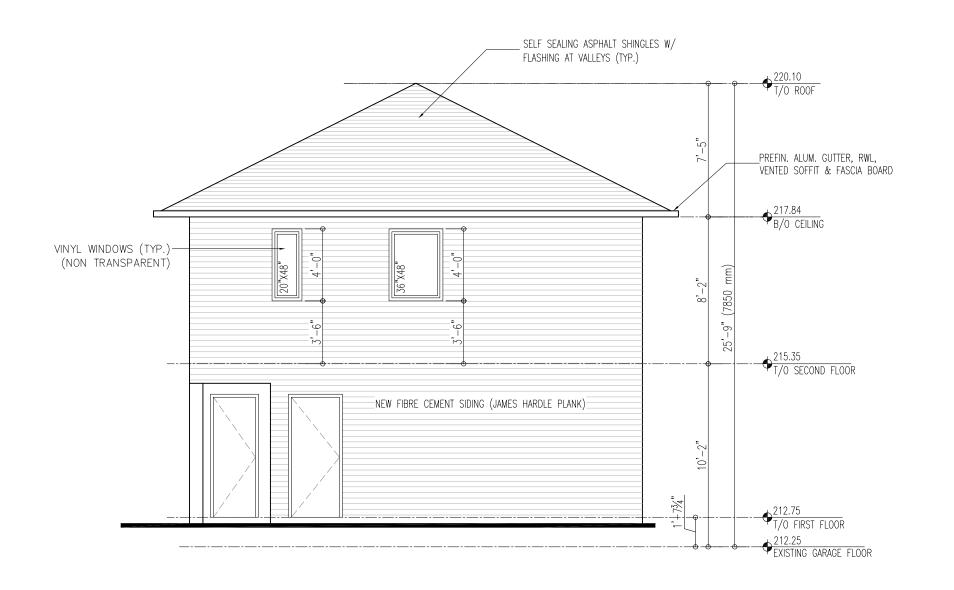
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PROPOSED COACH HOUSE ABOVE GARAGE

12 BITTERSWEET STREET MARKHAM ON L6B 1K2

DRAWING TITLE :

SOUTH ELEVATION



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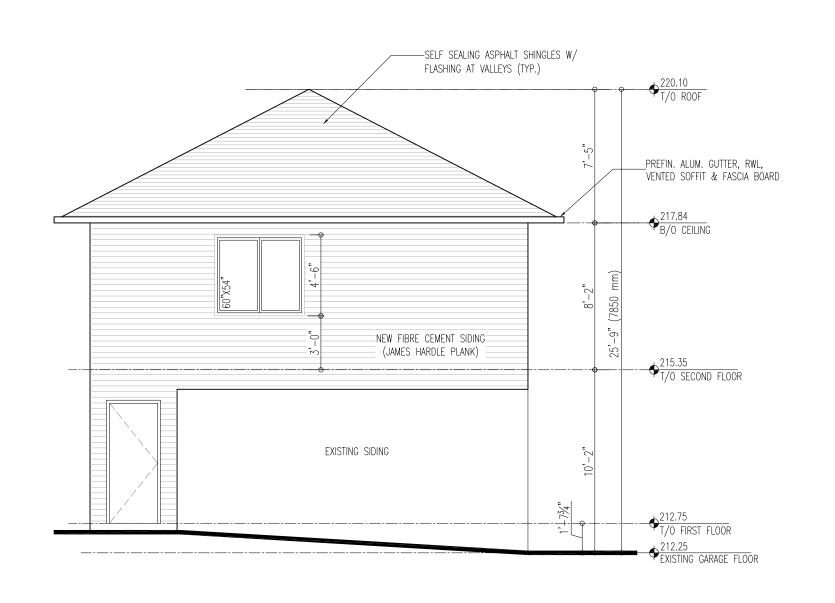
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PROPOSED COACH HOUSE ABOVE GARAGE

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DRAWING TITLE :

EAST ELEVATION



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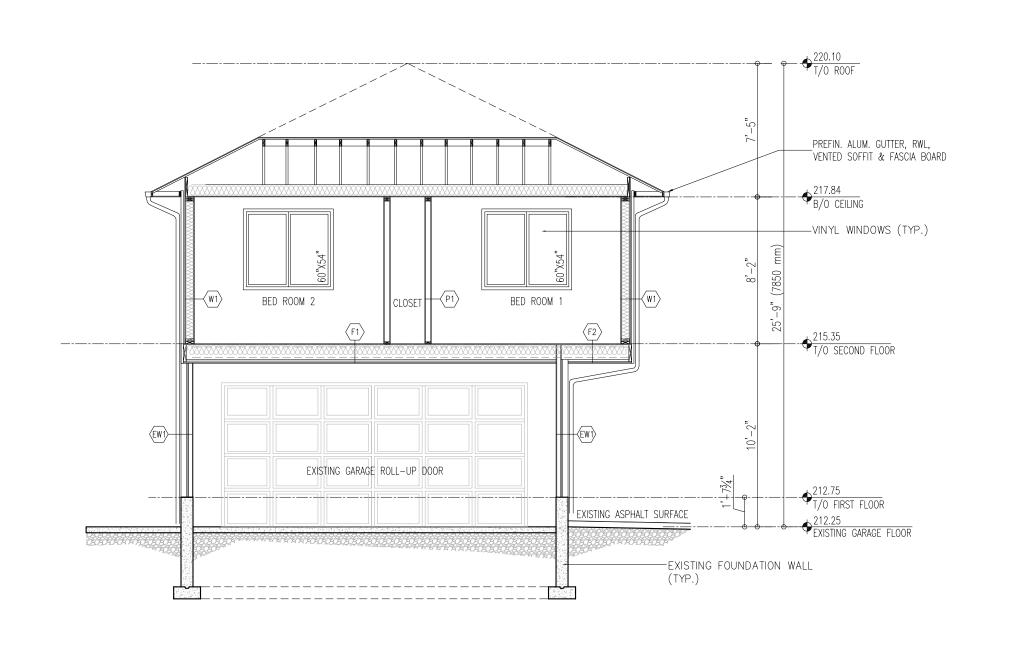
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### PROPOSED COACH HOUSE ABOVE GARAGE

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DRAWING TITLE :

NORTH ELEVATION



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12 BITTERSWEET STREET MARKHAM ON L6B 1K2

DRAWING TITLE :

BUILDING SECTION

A-10